

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number:

091786635D

Source:

STIC

Date Processed by STIC:

6/1/05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 06/01/2005

PATENT APPLICATION: US/09/786,635D

TIME: 07:29:00

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Output Set: N:\CRF4\06012005\I786635D.raw

3 <110> APPLICANT: Bayer AG
 5 <120> TITLE OF INVENTION: ATP binding cassette genes and proteins for diagnosis and treatment of

6 lipid disorders and inflammatory diseases

8 <130> FILE REFERENCE: LeA 33298

10 <140> CURRENT APPLICATION NUMBER: US/09/786,635D

11 <141> CURRENT FILING DATE: 2001-05-22

13 <150> PRIOR APPLICATION NUMBER: 101706

14 <151> PRIOR FILING DATE: 1998-09-25

16 <160> NUMBER OF SEQ ID NOS: 55

18 <170> SOFTWARE: PatentIn version 3.1

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 6880

22 <212> TYPE: DNA

23 <213> ORGANISM: Homo sapiens

25 <400> SEQUENCE: 1

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(pg. 6)

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259 <212> TYPE: PRT

260 <213> ORGANISM: Homo sapiens

262 <400> SEQUENCE: 2

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269 20 25 30
272 Val Val Gly Asn Phe Asn Lys Ser Ile Val Ala Arg Leu Phe Ser Asp
273 35 40 45

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281 65                      70                      75                      80
284 Asn Leu Lys Leu Gln Asp Phe Leu Val Asp Asn Glu Thr Phe Ser Gly
285                      85                      90                      95
288 Phe Leu Tyr His Asn Leu Ser Leu Pro Lys Ser Thr Val Asp Lys Met
289                      100                      105                      110
292 Leu Arg Ala Asp Val Ile Leu His Lys Val Phe Leu Gln Gly Tyr Gln
293                      115                      120                      125
296 Leu His Leu Thr Ser Leu Cys Asn Gly Ser Lys Ser Glu Glu Met Ile
297                      130                      135                      140
300 Gln Leu Gly Asp Gln Glu Val Ser Glu Leu Cys Gly Leu Pro Arg Glu
301 145                      150                      155                      160
304 Lys Leu Ala Ala Ala Glu Arg Val Leu Arg Ser Asn Met Asp Ile Leu
305                      165                      170                      175
308 Lys Pro Ile Leu Arg Thr Leu Asn Ser Thr Ser Pro Phe Pro Ser Lys
309                      180                      185                      190
312 Glu Leu Ala Glu Ala Thr Lys Thr Leu Leu His Ser Leu Gly Thr Leu
313                      195                      200                      205
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317                      210                      215                      220
320 Val Met Phe Leu Thr Asn Val Asn Ser Ser Ser Ser Ser Thr Gln Ile
321 225                      230                      235                      240
324 Tyr Gln Ala Val Ser Arg Ile Val Cys Gly His Pro Glu Gly Gly Gly
325                      245                      250                      255
328 Leu Lys Ile Lys Ser Leu Asn Trp Tyr Glu Asp Asn Asn Tyr Lys Ala
329                      260                      265                      270
332 Leu Phe Gly Gly Asn Gly Thr Glu Glu Asp Ala Glu Thr Phe Tyr Asp
333                      275                      280                      285
336 Asn Ser Thr Thr Pro Tyr Cys Asn Asp Leu Met Lys Asn Leu Glu Ser
337                      290                      295                      300
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341 305                      310                      315                      320
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345                      325                      330                      335
348 Ala Glu Val Asn Lys Thr Phe Gln Glu Leu Ala Val Phe His Asp Leu
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352 Glu Gly Met Trp Glu Glu Leu Ser Pro Lys Ile Trp Thr Phe Met Glu
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356 Asn Ser Gln Glu Met Asp Leu Val Arg Met Leu Leu Asp Ser Arg Asp
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361 385                      390                      395                      400
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365                      405                      410                      415
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369                      420                      425                      430
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381 465          470          475          480
384 Ile Thr Pro Gly Ser Ile Glu Leu Pro His His Val Lys Tyr Lys Ile
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388 Arg Met Asp Ile Asp Asn Val Glu Arg Thr Asn Lys Ile Lys Asp Gly
389          500          505          510
392 Tyr Trp Asp Pro Gly Pro Arg Ala Asp Pro Phe Glu Asp Met Arg Tyr
393          515          520          525
396 Val Trp Gly Gly Phe Ala Tyr Leu Gln Asp Val Val Glu Gln Ala Ile
397          530          535          540
400 Ile Arg Val Leu Thr Gly Thr Glu Lys Lys Thr Gly Val Tyr Met Gln
401 545          550          555          560
404 Gln Met Pro Tyr Pro Cys Tyr Val Asp Asp Ile Phe Leu Arg Val Met
405          565          570          575
408 Ser Arg Ser Met Pro Leu Phe Met Thr Leu Ala Trp Ile Tyr Ser Val
409          580          585          590
412 Ala Val Ile Ile Lys Gly Ile Val Tyr Glu Lys Glu Ala Arg Leu Lys
413          595          600          605
416 Glu Thr Met Arg Ile Met Gly Leu Asp Asn Ser Ile Leu Trp Phe Ser
417          610          615          620
420 Trp Phe Ile Ser Ser Leu Ile Pro Leu Leu Val Ser Ala Gly Leu Leu
421 625          630          635          640
424 Val Val Ile Leu Lys Leu Gly Asn Leu Leu Pro Tyr Ser Asp Pro Ser
425          645          650          655
428 Val Val Phe Val Phe Leu Ser Val Phe Ala Val Val Thr Ile Leu Gln
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437          690          695          700
440 Val Ala Trp Gln Asp Tyr Val Gly Phe Thr Leu Lys Ile Phe Ala Ser
441 705          710          715          720
444 Leu Leu Ser Pro Val Ala Phe Gly Phe Gly Cys Glu Tyr Phe Ala Leu
445          725          730          735
448 Phe Glu Glu Gln Gly Ile Gly Val Gln Trp Asp Asn Leu Phe Glu Ser
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452 Pro Val Glu Glu Asp Gly Phe Asn Leu Thr Thr Ser Val Ser Met Met
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456 Leu Phe Asp Thr Phe Leu Tyr Gly Val Met Thr Trp Tyr Ile Glu Ala
457          770          775          780
460 Val Phe Pro Gly Gln Tyr Gly Ile Pro Arg Pro Trp Tyr Phe Pro Cys
461 785          790          795          800
464 Thr Lys Ser Tyr Trp Phe Gly Glu Glu Ser Asp Glu Lys Ser His Pro
465          805          810          815
468 Gly Ser Asn Gln Lys Arg Ile Ser Glu Ile Cys Met Glu Glu Glu Pro
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:13; N Pos. 4721,4752,4754,4772,4773
Seq#:20; N Pos. 5,2909
Seq#:25; N Pos. 1963
Seq#:31; N Pos. 856,1009,1128,1314,1326,1328,1343,1345,1346,1378,1415,2477
Seq#:31; N Pos. 2540
Seq#:54; N Pos. 856,1009,1128,1314,1326,1328,1343,1345,1346,1378,1415,2477
Seq#:54; N Pos. 2540

VERIFICATION SUMMARY

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M:341 Repeated in SeqNo=3
L:989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:900
M:341 Repeated in SeqNo=4
L:2104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:4200
M:341 Repeated in SeqNo=13
L:2769 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
M:341 Repeated in SeqNo=20
L:3002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:1920
L:3524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:840
M:341 Repeated in SeqNo=31
L:3901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:840
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